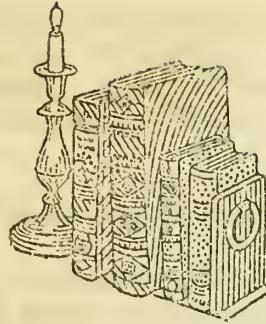


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Vol. 9, No. 12 - Vol. 10, No. 1.

June-July 1951.

## NEW BOOKS IN THE LIBRARY

THE ABC OF SOILS, by J. S. Joffe. Pedology Publications, 1949. 283p.  
56 J59

Presumably this is the first textbook on soils and their management which treats the subject from the pedologic point of view. The author tells us that pedology is the science dealing with the natural laws governing the origin, formation, and geographic distribution of the soil as a distinct body in nature. The book is divided into two parts--a discussion of soil as a natural body and a discussion of soil as a medium of plant growth.

THE BACKGROUND OF PLANT ECOLOGY, by H. S. Conard. Iowa State College Press, 1951. 238p. 459 K45Ae

This is a translation from German of one of the classics of modern plant sociological literature: The Plant Life of the Danube Basin by Anton Kerner. The original book, published in 1863, is the immediate and direct parent of all later works on plant ecology. The book is mentioned in all extensive bibliographies but is rarely found in libraries. Consequently, Dr. Conard felt that it should be translated and made more widely available. It should be of special interest to foresters and ecologists, though any one who loves trees will find it entertaining.

BASIC HORTICULTURE, by Victor R. Gardner. Macmillan, 1951. 465p. 90.4  
G17 Ed.2

This book was written with the idea of helping the student acquire a real understanding of plants--their structure, how they grow, and the way in which they react to different environments. The author feels that with an understanding of basic horticultural principles, a person can solve for himself many problems that arise. Such principles are presented in chapters on plant classification, structure, and growth; temperature relations of plants; the limiting factors of water, light, and plant nutrients; growth and fruitfulness; flower-bud differentiation and flowering habits; training horticultural plants; pruning; propagation; hormones and growth regulators; the culture of annuals, biennials, and perennials; plant pests and diseases.

FIFTY YEARS OF FORESTRY IN THE U. S. A., edited by R. K. Winters. Society of American Foresters, 1950. 385p. 99.04 Sol

As its title indicates, this is a history of the growth of the profession of forestry in the United States. Each of the nineteen chapters is written by

a specialist in that subject. The first chapter summarizes briefly the principal professional developments to date. Chapters two through eight give in more detail the development of several of the important phases of forestry. Chapters nine through nineteen trace the growth of the several important agencies and activities that have advanced professional forestry.

FOREVER THE LAND: A COUNTRY CHRONICLE AND ANTHOLOGY, edited and illustrated by Russell and Kate Lord. Harper, 1950. 394p. 30.4 L88

Those who have been interested in the Friends of the Land organization and its magazine The Land will feel that they are meeting old friends when they read this book, for it is largely a collection of articles and poetry published in The Land. To those who do not know the magazine, and who love nature and the good earth, this book will be a fascinating discovery.

AN INTRODUCTION TO PLANT PHYSIOLOGY, by O. F. Curtis and D. G. Clark. McGraw-Hill, 1950. 752p. 463.3 C94

This is a text prepared for students taking a first course in plant physiology. The emphasis is more on ecology and water relations than on the biochemical aspects of plant physiology.

PLANT PATHOLOGY, by J. C. Walker. McGraw-Hill, 1950. 699p. 464 W15

"The purpose of this text is to provide the basic facts whereby the student may be introduced to the scientific foundations of plant pathology. It is not a manual of disease descriptions nor a handy compendium of remedial measures. It presents rather comprehensive treatments of better known representative diseases which may serve as guides to the general principles underlying the science of plant pathology. Since the background of any science is basic to a full understanding of its present trends, a chapter on the history of plant pathology is included. Following the chapters on specific disease groups, consideration is given to environmental factors, host-parasite relations, and the methods of disease control." Preface.

SHRUBS AND VINES FOR AMERICAN GARDENS, by Donald Wyman. Macmillan, 1949.

442p. 97.3 W98

This book was written to aid both the amateur and the professional gardener in selecting the best plant for the right place. Approximately 1100 species and varieties of shrubs and vines are suggested as worthy of planting under certain conditions, and over 1700 as of secondary interest only. While the reader may not agree with the arbitrary groupings of the author, he can analyze his personal likes and dislikes with a study of the author's suggestions and find the book helpful.

THE STORY OF PLANTS, by John Asch. Putnam's, 1948. 407p. 463 As2

"This is a unique and fascinating story for those interested in the life of plants. It is simply written, with a fresh approach which will be a relief from the dry and lifeless technique often employed in scientific writing. The author, son of the world-renowned Sholem Asch, has a background of wide experience which enables him to give a clear analysis of the atom, the elements of life in plants, soil and all nature. It is an accurate and thorough work." From American Forests, August 1949.

TREE CROPS: A PERMANENT AGRICULTURE, by J. Russell Smith. Devin-Adair, 1950.

408p. 99 Sm6

This is essentially the same book first issued in 1929. The new book is more attractive in format and more readable as the many footnotes of the first

dition have been incorporated into the text. A substantial amount of new material has been added. Some of the trees considered are the carob, honey locust, mesquites, mulberry, persimmon, chestnut, oak, the walnuts, and the hickories. Bernard Baruch said, "Anyone with a plot large enough to plant a tree will be interested in reading this book."

WATER-OR YOUR LIFE, by Arthur W. Carhart. Lippincott, 1951. 312p. 292 C192

"The recurring droughts and water shortages which plague this nation offer tangible evidence of mismanagement and abuse of water resources. Here is a timely and important account of the manner in which usable water supplies are being gradually depleted and destroyed through carelessness and faulty conservation measures. It provides a vivid picture of the importance of water in our everyday life and of the almost insatiable and conflicting demands on existing water supplies. The author is highly critical of many government sponsored projects which he contends have been unjustified and ill-advised, and which through the destruction of animal life and recreational areas have done more harm than good. A practical program of water management and control is briefly outlined." Library Journal, April 1, 1951.

#### SELECTED BULLETINS

##### Agronomy

"Bermudagrass Research in Texas." Tex. Agr. Expt. Sta. Cir. 129. 1951. 25p.  
100 T31S 129

"Correlation of Forage Yields and Soluble Soil Phosphorus on Lake Charles Clay Loam." Tex. Agr. Expt. Sta. Progress Report 1369. 3p. 100 T31S 1369

"Cowpeas for Oklahoma." Okla. Agr. Expt. Sta. Bul. B-371. 1951. 15p. 100 Okl4B 371

"Grass Seed Production on Irrigated Land." USDA Leaflet 300. 1951. 8p.  
1 Ag84L 300

"Improvement of Native Dallis Grass in Louisiana." La. Agr. Expt. Sta. Bul. 449. 1951. 40p. 100 L93 449

"Renovation and Fertilization of Established Stands of King Ranch Bluestem." Tex. Agr. Expt. Sta. Progress Report 1371. 1951. 2p. 100 T31S 1371

##### Entomology

"Agricultural Insecticides and Fungicides in Texas, 1949-1950." Tex. Agr. Expt. Sta. Cir. 127. 1950. 15p. 100 T31S 127

"The Armyworm and Its Control." USDA Farmers' Bul. 1850. Rev. 1951. 10p.  
1 Ag84F 1850

"Chigger Control." USDA Leaflet 302. 1951. 7p. 1 Ag84L 302

"Control of Nonsubterranean Termites." USDA Farmers' Bul. 2018. 1950. 16p.  
1 Ag84F 2018

"Decay and Termite Damage in Houses." USDA Farmers' Bul. 1993. Rev. 1951.  
26p. 1 Ag84F. 1993

"Domestic Mosquitoes." USDA Leaflet 186. Rev. 1951. 8p. 1 Ag84L 186

"A Graphic Solution for Mast Type Orahcar Sprayer Problems." Okla. Agr. Expt. Sta. Misc. Pub. MP\*21. 1951. 100 Okl4Mp 21

"Mechanics of Feeding of the Greenbug...on Hordeum, Avena, and Triticum." Okla. Agr. Expt. Sta. Tech. Bul. T-40. 1951. 18p. 100 Ok4T 40

"New Insecticides for Garden Insects." New Mexico Agr. Expt. Sta. Bul. 361. 1951. 24p. 100 N46B

"Peach Spray Information." N. C. Agr. Expt. Sta. Special Cir. 12. 1951. 100 N81S 12

"The Redheaded Pine Sawfly." USDA Leaflet 296. 1951. 4p. 1 Ag84L 296

"Some Plant Responses to Certain Insecticides in the Soil." USDA Cir. 862. 1951. 41p. 1 Ag84C 862

"Sorghum Webworm Control." Tex. Agr. Expt. Sta. Progress Report 1291. 1950. 2p. 100 T31P 1291

Farmhouses

"Expandible Farmhouses." USDA Leaflet 301. 1951. 4p. 1 Ag84L 301

"Southern Farmhouses." USDA Leaflet 303. 1951. 4p. 1 Ag84L 303

Films

"Motion Pictures of the United States Department of Agriculture, 1950." USDA Agr. Handbook 14. 1951. 53p. 1 Ag84Ah 14

"Slidefilms of the U. S. Department of Agriculture." USDA Agr. Handbook 17. 1951. 29p. 1 Ag84Ah 17

Food

"Food for the Family With Young Children." USDA Home and Garden Bul. 5. 1951. 15p. 1 Ag84Hg 5

"Food Values in Common Portions." USDA Agr. Information Bul. 36. 1951. 8p. 1 Ag84Ab 36

"Home Canning of Meat." USDA Home and Garden Bul. 6. 1951. 16p. 1 Ag84Ag

"Tomatoes...Facts for Consumer Education." USDA Agr. Information Bul. 32. 1951. 19p. 1 Ag84Ab 32

Forestry

"Comparative Survivals and Costs of Plantations by Different Methods of Ground Preparation and Planting." Central States Forest Expt. Sta. Station Notes 64. 1951. 2p. 1.9 F76252S

"The Concentration of Roots in the White Oak Forests of Southeastern Ohio." Central States Forest Experiment Station Tech. Paper 120. 1951. 13p. 1.9622 C3T222 120

"Forest Planting Sites in North Mississippi and West Tennessee." Southern Forest Expt. Sta. Occasional Paper 120. 1951. 15p. 1.9 F76240

"The Influence of Seedbed Conditions on the Regeneration of Eastern White Pine." Conn. Agr. Expt. Sta. Bul. 545. 1951. 61p. 100 C76S 545

"The Principal Laws Relating to the Establishment and Administration of the National Forests and to Other Forest Service Activities." USDA Agr. Handbook 20. 1951. 80p. 1 Ag84Ah 20

"Relation Between Topography, Soil Characteristics, and the Site Index of White Oak in Southeastern Ohio." Central States For. Expt. Sta. Tech. Paper 121. 1951. 12p. 1.9622 C3T222 121

"Root-Rot Control and Soil Improvement at the Ashe Forest Nursery." Southern Forest Expt. Sta. Occasional Paper 119. 1951. 23p. 1.9 F76240

"Sampling in Tree Measurement Sales on Northern Region National Forests." Northern Rocky Mountain Forest & Range Expt. Sta. Station Paper 27. 1951. 45p. 1.9622 N3St1 27

"Slash and Loblolly Pine Plantations in Alabama's Piedmont Region." Ala. Agr. Expt. Sta. Cir. 99. 1951. 22p. 100 AL1C 99

"Use of Low-Altitude Continuous-Strip Aerial Photography in Forestry." Southern Forest Expt. Sta. Occasional Paper 118. 1951. 19p. 1.9 F76240

Horticulture

"Ornamental Shrubs for the Southern Great Plains." USDA Farmers' Bul. 2025. 1951. 62p. 1 Ag84F 2025

"Watermelons." USDA Farmers' Bul. 1394. Revised 1951. 30p. 1 Ag84F 1394

Livestock

"Buying and Selling Feeder Cattle in Illinois: A Study of Current Practices and Costs." Ill. Agr. Expt. Sta. Bul. 541. 1950. 31p. 100 IL6B

"Crossbreeding Beef Cattle: A Comparison of the Hereford and Aberdeen Angus Breeds and Their Reciprocal Crosses." Ohio Agr. Expt. Sta. Res. Bul. 703. 1951. 33p. 100 Oh3R 703

"Feeding and Breeding Tests With Sheep, Swine, and Beef Cattle. Progress Report, 1950-51." Okla. Agr. Expt. Sta. Misc. Pub. MP-22. 1951. 96p. 100 Ok4Mp 22

"Lamb Feeding Trials in the El Paso Valley, 1947-49." Tex. Agr. Expt. Sta. Bul. 733. 1951. 15p. 100 T31S 733

"Livestock Auctions in Texas." Tex. Agr. Expt. Sta. Bul. 732. 1951. 46p. 100 T31S 732

"Oats Pasture vs. Dry Lot for Fattening Swine." Ga. Coastal Plain Agr. Expt. Sta. Cir. 19. 1949. 6p. 100 G292 19

"Preliminary Observations on the Feeding Value of Citrus and Cane Molasses for Swine." Fla. Agr. Expt. Sta. Cir. S-10. 1950. 6p. 100 F66C

"Sheep for Lamb and Wool Production in Arkansas." Ark. Agr. Expt. Sta. Bul. 501. 1951. 21p. 100 Ar42

"Soybean Oil Meal for Pigs." Ohio Agr. Expt. Sta. Res. Bul. 699. 1951. 72p. 100 Oh3R 699

"Swine Experiments." Ga. Coastal Plain Expt. Sta. Cir. 17. 1949. 9p. 100 G292C 17  
No. 1. Hogging-Off Mature Small Grain. 2. Feeding Corn to Pigs Hogging-Off Mature Oats. 3. The Value of Protein Supplement for Pigs Hogging-Off Corn in Summer Months.

"Swine Experiments." Same. Cir. 18. 1949. 9p.  
1. Peanut Oil Meal as a Substitute for Corn in Fattening Pigs. 2. The

Value of Cracked Shelled Corn and Ground Snapped Corn for Fattening Swine.

Plant Diseases

"Clitocybe Root Rot of Woody Plants in the Southeastern United States." USDA Cir. 853. 1950. 25p. 1 Ag84C 853

"Control of Pecan Diseases in 1950." Tex. Agr. Expt. Sta. Progress Report 1330. 1951. 3p. 100 T31P 1330

"Cotton Root Rot and Land Use Studies at the Blackland Experiment Station." Tex. Agr. Expt. Sta. Progress Report 1364. 1951. 4p. 100 T31S 1364

"Effects of Certain Cultural Practices on Verticillium Wilt of Cotton in New Mexico." New Mexico Agr. Expt. Sta. Bul. 356. 1950. 28p. 100 N46B

"Forty-Two Years of Sugarcane Disease Research at the Louisiana Agricultural Experiment Station." La. Agr. Expt. Sta. Bul. 448. 1950. 31p. 100 L93

Poultry

"Broiler Growing Can Be Profitable." Okla. Agr. Expt. Sta. Bul. B-365. 1951. 6p. 100 Ok4B 365

"Broiler Marketing." Okla. Agr. Col. Ext. Ser. Cir. 554. 11p. 275.29 Ok41C

"Laying Flock Management." N. C. Agr. Ext. Ser. Ext. Cir. 279. Rev. 1951. 16p. 275.29 N811 C

"Marketing Practices of Northwest Arkansas Broiler Producers." Ark. Agr. Expt. Sta. Bul. 503. 1950. 37p. 100 Ar42 503

"Nutritive Requirements and Food Formulas for Chickens." USDA Cir. 788. Rev. 1950. 28p. 1 Ag84C 788

Range and Pasture

"Dryland Pastures and Their Establishment." Wyoming Range Management No. 18. 1949. 3p. 60.19 W99

"The Northern Great Plains Research Center: Its Work and Aims." Northern Rocky Mountain Forest & Range Expt. Sta. Misc. Pub. 1. 1950. 10p. 1.9622 N3M

"Pasture Fertility Research Station, Coalgate, Oklahoma: Progress Report, 1951." Okla. Agr. Expt. Sta. Mimeo. Cir. M-221. 1951. 10p. 100 Ok4M

"Pine Forest Ranges in Louisiana." Southern Forest Experiment Station. 1951. 7p.

"Research on the College Ranch: A Review of Results from Experiments in Range Management, Nutrition of Range Cattle, and Beef Cattle Production." New Mexico Agr. Expt. Sta. Bul. 359. 1951. 32p. 100 N46B

"Sulfur Requirement of Soils for Clover-Grass Pastures in Relation to Fertilizer Phosphates." Fla. Agr. Expt. Sta. Bul. 475. 1951. 32p. 100 F66S 475

"Summary of the 1950 Grazing and Feeding Work at the Blackland Experiment Station." Tex. Agr. Expt. Sta. Progress Report 1333. 1951. 2p. 100 T31P

"Supplying Phosphorus to Range Cattle Through the Fertilization of Range Land." Tex. Agr. Expt. Sta. Progress Report 1341. 1951. 7p. 100 T31P 1341

Rice

"Effect of Combine Adjustment on Harvest Losses of Rice." Ark. Agr. Expt. Sta. Bul. 500. 1950. 21p. 100 Ar42 500

"When to Harvest Rice for Best Milling Quality and Germination." Ark. Agr. Expt. Sta. Bul. 504. 1950. 41p. 100 Ar42 504

"Insects and Fungi as Causes of Pecky Rice." USDA Tech. Bul. 1015. 1950. 20p. 1 Ag84Te 1015

"Diseases of Rice." USDA Farmers' Bul. 1854. 1951. 16p. 1 Ag84F 1854

Soil and Water Conservation

"Erosion of Topsoil Reduces Productivity." SCS-TP-98. 1950. 31p. 1.96 Ad6Tp

"How To Recognize Erosion in the Northeast." USDA Agr. Information Bul. 27. 1950. 1 Ag84Ab 27

"The Measure of Our Land." USDA PA-128. 1951. 1 Ag84Pro 128

"Soil and Water Conservation Research at the Red Plains Conservation Experiment Station, Guthrie, Oklahoma. Progress Report, 1951." Okla. Agr. Expt. Sta. Mimeo. Cir. M-219. 1951. 9p. 100 Ok4M 219

"Soil and Water Conservation Research at the Wheatland Conservation Experiment Station, Cherokee, Oklahoma." Okla. Agr. Expt. Sta. Mimeo. Cir. M-223. 9p. 1951. 100 Ok4M 223

"The Southeastern Soil Improvement Station, Heavener: Summary of Results to Date..." Okla. Agr. Expt. Sta. Mimeo. Cir. M-224. 1951. 21p. 100 Ok4M

"Water Conservation Increases Cotton Yields." Tex. Agr. Expt. Sta. Progress Report 1340. 3p. 100 T31P

Watersheds

"Some Aspects of Watershed Management in Southern California." California Forest & Range Expt. Sta. Misc. Paper No. 1. 1951. 29p.

"Some Methods for Relating Sediment Production to Watershed Conditions." Intermountain Forest & Range Expt. Sta. Research Paper 26. 1951. 19p. 1.9622 I2R31 26

"Effect of Soil and Cover Conditions on Soil-Water Relationships." Northeastern Forest Expt. Sta. Station Paper 39. 1951. 44p. 1.9622 N2St22 39

"Watershed Management, With Particular Reference to Forest and Range Lands." Prepared for the President's Water Resources Policy Commission. 1950. 20p. 1.962 A2W29

Weed and Brush Control

"Bermuda Grass Control." Okla. Agr. Expt. Sta. Mimeo. Cir. M-214. 1951. 4p. 100 Ok4M 214

"Brush Control Research at the Red Plains Conservation Experiment Station, Guthrie, Oklahoma." Okla. Agr. Expt. Sta. Mimeo. Cir. M-220. 1951. 7p. 100 Ok4M M-220

"Chemical Control of Brush: Recommendations Based on Research to Date."

Okla. Agr. Expt. Sta. Mimeo. Cir. M-218. 1951. 8p. 100 Ok4M 218

"Chemical Control of Blueweed." Tex. Agr. Expt. Sta. Progress Report 1375. 1951. 2p. 100 T31S 1375

"Chemical Control of Johnson Grass at the Blackland Station, 1950." Tex. Agr. Expt. Sta. Progress Report 1318. 1951. 2p. 100 T31P 1318

"Chemical Control of Johnson Grass on a Heavy Soil in Northwest Texas." Tex. Agr. Expt. Sta. Progress Report 1345. 3p. 1951. 100 T31P 1345

"Control of Mesquite." Tex. Agr. Expt. Sta. Progress Report 1320. 1951. 7p. 100 T31P 1320

"Controlling Johnson Grass in Oklahoma: A progress report." Okla. Agr. Expt. Sta. Mimeo. Cir. M-215. 1951. 5p. 100 Ok4M 215

"Controlling Perennial Ragweed to Make Better Pastures." Okla. Agr. Expt. Sta. Bul. B-369. 1951. 11p. 100 Ok4B 369

"Experimental Control of Poisonous Range Plants in Texas." Tex. Agr. Expt. Sta. Progress Report 1334. 1951. 4p. 100 T31P 1334

"IPC, A New Weed Killer." Ore. Agr. Expt. Sta. Station Bul. 483. 1950. 8p. 100 Or3 483

"Kill Undesirable Native Vegetation for Successful Range Reseeding." Rocky Mountain Forest and Range Expt. Sta. Research Notes 8. 1951. 3p. 1.9622 R2R313 8

"St. Johnswort on Western Ranges." Northern Rocky Mountain Forest & Range Expt. Sta. Station Paper 26. 1951. 18p. 1.9622 N3St1 26

"Soil Treatments for Field Bindweed Eradication in Northwest Texas." Tex. Agr. Expt. Sta. Progress Report 1304. 1950. 4p. 100 T31P 1304

Miscellany

"Absorption of Gypsum by Semiarid Soils." Ariz. Agr. Expt. Sta. Tech. Bul. 122. 1951. 49p. 100 Ar4T 122

"Agricultural Cooperatives in the Coastal Bend Area of Texas." Tex. Agr. Expt. Sta. Progress Report 1378. 1951. 8p. 100 T31S 1378

"Analysis of Crop-Weather Relationships." B.E. 1950. 22p. 1.941 A2An1

"Border Irrigation." USDA Leaflet 297. 1951. 8p. 1 Ag84L 297

"Classification in a Nutshell." USDA Administrative Ser. 11. 1 P432A 11

"Community Gains from Conservation Farming." USDA P.A. 146. 1951. 7p. 1 Ag84Pro 146

"Comparison of Wood Preservatives in Mississippi Post Study: 1951 Progress Report." Forest Products Lab. R1757. 1951. 11p. 1.9 F761

"System in the County Extension Office." USDA Agr. Information Bul. 28. 1951. 24p. 1 Ag84Ab 28  
A good bulletin on office management.

"The Use of Woody Materials on Agricultural Land: A Review." SCS-TP-99. 1950. 14p. 1.96 Ad6Tp

"Window Curtains...Planning and Selection." USDA Home and Garden Bul. 4. 1951. 16p. 1 Ag84Hg 4